

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1.(previously amended) A deep tillage point structure adapted for connection to an upright shank for forward movement through a compacted layer of soil, the point structure comprising: a main body having a fore-and-aft extending leading nose with a front surface which extends upwardly and rearwardly from a nose leading edge for initiating fracture of the compacted layer, a tapered top surface extending rearwardly and upwardly from the front surface, the tapered top surface including outwardly facing surfaces extending downwardly from an apex, the apex extending from adjacent the nose leading edge and terminating in an apex aft end at a central fore-and-aft location on the main body, the surfaces forming an included angle at the apex and causing an initial parting stress of the fractured compacted layer as soil moves rearwardly along a length of the apex to an uppermost rear portion of the apex adjacent the upright shank, wherein the length of the apex is substantially greater than a distance equal to a maximum height of the apex above the nose leading edge and the included angle is obtuse substantially the entire length of the apex and approximately 100 degrees adjacent the aft end of the apex to facilitate soil parting by the upright shank in the initially stressed fractured compacted layer, and wherein wings include forwardmost portions located behind the aft end of the apex.

Claim 2 (previously canceled)

Claim 3 (original): The point structure as set forth in claim 1 including a shin member extending vertically from an aft portion of the nose, the shin member having a sharp leading edge for parting the compacted layer as the soil moves rearwardly past the nose.

Claim 4 (original): The point structure as set forth in claim 3 wherein the leading edge of the shin member defines an included angle of less than 45 degrees.

Claim 5 (original): The point structure as set forth in claim 4 wherein the included angle is approximately 30 degrees.

Claims 6 - 7 (canceled)

Claim 8 (original): The point structure as set forth in claim 3 wherein the outwardly facing surfaces extend rearwardly past the sharp leading edge to help move the soil outwardly from the shank.

Claim 9 (previously amended): A deep tillage point structure including upright shank structure having a leading edge and movable forwardly through a compacted layer of soil, the point structure including a main body having a fore-and-aft extending leading nose with a front surface which extends upwardly and rearwardly from a nose leading edge for initiating fracture of the compacted layer, a tapered top surface extending rearwardly and upwardly from the front surface, the tapered top surface including outwardly facing surfaces extending downwardly from an apex, the apex extending from adjacent the leading nose to an aft end at a central portion of the main body portion, the surfaces forming an included angle at the apex and causing a lifting of the fractured compacted layer as soil moves rearwardly along a length of the apex to an uppermost rear portion of the apex adjacent the leading edge of the upright shank structure, and further comprising wings having leading edges located substantially entirely behind the aft end of the apex and extending outwardly from the body rearwardly adjacent the nose and below the aft end of the apex for entering a fracture area initiated by the front surface, wherein substantial portions of the wings lie behind the leading edge of the upright shank and enter an area of the soil below the fractured compacted layer to thereby reduce draft entry of the wings.

Claim 10 (original): The point structure as set forth in claim 9 wherein the wings have a lift angle between 15 and 25 degrees.

Claim 11 (original): The point structure as set forth in claim 9 wherein the wings slope downwardly in an outward direction at an angle less than 15 degrees.

Claim 12 (original): The point structure as set forth in claim 11 wherein the wings slope downwardly at an angle of approximately 7 degrees.

Claim 13 (original): The point structure as set forth in claim 9 wherein the wings have a wing width of less than 12 inches and greater than 9 inches.

Claim 14 (original): The point structure as set forth in claim 9 wherein the wings have leading edges angled rearwardly at an acute angle relative to a vertical plane extending perpendicular to a forward direction of travel of the point structure.

Claim 15 (previously amended): The point structure as set forth in claim 13 wherein the wings have leading edges spaced rearwardly from the nose leading edge about 10 inches.

Claims 16 - 24 (canceled)